

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/09338

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16N11/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F16N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 276 492 B1 (CARROLL JOHN B) 21 August 2001 (2001-08-21) the whole document	1
A	US 6 145 625 A (ZUMBACH FERDINAND ET AL) 14 November 2000 (2000-11-14) the whole document	1
A	DE 198 43 695 A (UNILUBE AG) 6 April 2000 (2000-04-06) abstract; figures	1
A	US 2002/112759 A1 (JAEGER SIEGFRIED) 22 August 2002 (2002-08-22) abstract; figures	1

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

8 March 2004

Date of mailing of the international search report

19/03/2004

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/09338

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6276492	B1	21-08-2001	AU 7210800 A BR 0100370 A CA 2325125 A1 ZA 200101713 A	13-09-2001 06-11-2001 07-09-2001 30-08-2001
US 6145625	A	14-11-2000	DE 19704958 A1 DE 59808936 D1 EP 0857910 A1 ES 2198018 T3 JP 10220689 A	20-08-1998 14-08-2003 12-08-1998 16-01-2004 21-08-1998
DE 19843695	A	06-04-2000	DE 19843695 A1	06-04-2000
US 2002112759	A1	22-08-2002	DE 10107558 A1 EP 1235025 A1 JP 2002339873 A	19-09-2002 28-08-2002 27-11-2002

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